

0590  
09/17

OIPE

## RAW SEQUENCE LISTING

DATE: 09/18/2002

PATENT APPLICATION: US/10/044,564

TIME: 09:49:55

Input Set : A:\Cura540.txt

Output Set: N:\CRF4\09182002\J044564.raw

3 <110> APPLICANT: Mezes et al.  
 5 <120> TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
 7 <130> FILE REFERENCE: 21402-240  
 9 <140> CURRENT APPLICATION NUMBER: 10/044,564  
 C--> 10 <141> CURRENT FILING DATE: 2002-09-09  
 12 <150> PRIOR APPLICATION NUMBER: 60/261,014  
 13 <151> PRIOR FILING DATE: 2001-01-11  
 15 <150> PRIOR APPLICATION NUMBER: 60/261,018  
 16 <151> PRIOR FILING DATE: 2001-01-11  
 18 <150> PRIOR APPLICATION NUMBER: 60/318,419  
 19 <151> PRIOR FILING DATE: 2001-09-10  
 21 <150> PRIOR APPLICATION NUMBER: 60/261,013  
 22 <151> PRIOR FILING DATE: 2001-01-11  
 24 <150> PRIOR APPLICATION NUMBER: 60/261,026  
 25 <151> PRIOR FILING DATE: 2001-01-11  
 27 <150> PRIOR APPLICATION NUMBER: 60/261,029  
 28 <151> PRIOR FILING DATE: 2001-01-11  
 30 <150> PRIOR APPLICATION NUMBER: 60/313,179  
 31 <151> PRIOR FILING DATE: 2001-08-17  
 33 <160> NUMBER OF SEQ ID NOS: 306  
 35 <170> SOFTWARE: PatentIn Ver. 2.1  
 37 <210> SEQ ID NO: 1  
 38 <211> LENGTH: 1837  
 39 <212> TYPE: DNA  
 41 <213> ORGANISM: Homo sapiens  
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 46 cctttctcca cttgaccagg ctggcgctct ccactggcc cgtgctgtc caatggccc 180  
 47 tggaggcgcc caagtgcgc cggggagtgc ggtgggtcc ggaaggctg ggtggtgta 240  
 48 aggtctgggc caagcagctc aacgaggaat gacgaaaaa gcagccctg gacacacca 300  
 49 aggggtggga atgcaacttc ggcgcagct ccacggctt gaaggggatc tgcagagctc 360  
 50 agtcagaggg cagacccgtt gaataaact ccagaatcta ccaaaaagg gaaagtctc 420  
 51 agcccaactg taacatcag tgcacatgta ttgatgggc cgtgggtgc attccttgt 480  
 52 gtccccaaga actatctctt ccaacttgg gctgtccaa cctcgggtg gtcaaaagta 540  
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 56 caatggagcc tgcctccga tacaacctt tacaaggcca gaaatgtatt gttcaaacaa 780  
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 59 agccagtgtc cagcagctg aaaaaggcca agaaatgcag caagaccaa aaatccccc 960  
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P.6

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/044,564

DATE: 09/13/2002

TIME: 09:49:55

Input Set : A:\Cura540.txt

Output Set: N:\CRF4\09182002\J044564.raw

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62 aatgcaacta caactgcccg catgccaatg aagcagcgtt tcccttctac aggcctgttca 1200
63 atgacattca caaatttagg gactaaaatg tacttgggtt tccaggccac acctagacaa 1260
64 acaagggaga agagtgtcag aatcagaatc atggagaaaa tgggcggggg tgggtgtggg 1320
65 gatgggactc attgtagaaa ggaagccctg ctcatctctg aggagcatta aggtatttgc 1380
66 aaactgcaca ggggtgctggg ggggatggac actaatgcag ccacgattgg agaatacttt 1440
67 gtttcattagt attggagcac atgttactgc ttcatcttgg agcttgtgga gttgatgaat 1500
68 tctgtttttc tgtttgtaaa ttatttgcct agcatatttt ctctaggctt ttttcttttc 1560
69 ggggttctac agtctgtaaa gagataataa gattagttgg acagtttaaa gcttttttcc 1620
70 gttcttttgc aaaagttaat gggagggcat tccatctctt cctgaagggg gacactccat 1680
71 ggtgtgtctgt gagaggcagc tatctgcact ctaaaactgca aacagaaatc aggtgtttta 1740
72 agactgaatg ttttatttat caaaatgtag cttttgggga gggaggggaa atgtaatact 1800
73 ggaataattt gtaaatgatt ttaattttat attcagtcaa aagattttat ttatggaatt 1860
74 aaccatttaa taaagaaata tttaacct 1920

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77 (210) SEQ ID NO: 2

78 (211) LENGTH: 391

79 (212) TYPE: PRT

80 (213) ORGANISM: Homo sapiens

81 (400) SEQUENCE: 2

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85 20 25 30
86 Pro Leu Glu Ala Pro Lys Cys Ala Pro Gly Val Gly Leu Val Arg Asp
87 35 40 45
88 Gly Cys Gly Cys Cys Lys Val Cys Ala Lys Gln Leu Asn Glu Asp Cys
89 50 55 60
90 Ser Lys Thr Gln Pro Cys Asp His Thr Lys Gly Leu Glu Cys Asn Phe
91 65 70 75 80
92 Gly Ala Ser Ser Thr Ala Leu Lys Gly Ile Cys Arg Ala Gln Ser Glu
93 85 90 95
94 Gly Arg Pro Cys Glu Tyr Asn Ser Arg Ile Tyr Gln Asn Gly Glu Ser
95 100 105 110
96 Phe Gln Pro Asn Cys Lys His Gln Cys Thr Cys Ile Asp Gly Ala Val
97 115 120 125
98 Gly Cys Ile Pro Leu Cys Pro Gln Glu Leu Ser Leu Pro Asn Leu Gly
99 130 135 140
100 Cys Pro Asn Pro Arg Leu Val Lys Val Thr Gly Gln Cys Cys Glu Glu
101 145 150 155 160
102 Trp Val Cys Asp Glu Asp Ser Ile Lys Asp Pro Met Glu Asp Gln Asp
103 165 170 175
104 Gly Leu Leu Gly Lys Glu Leu Gly Phe Asp Ala Ser Glu Val Glu Leu
105 180 185 190
106 Thr Arg Asn Asn Glu Leu Ile Ala Val Gly Lys Gly Ser Ser Leu Lys
107 195 200 205
108 Arg Ile Pro Val Phe Gly Met Glu Pro Arg Ile Arg Tyr Asn Pro Leu
109 210 215 220
110 Gln Gly Gln Lys Cys Ile Val Gln Thr Thr Ser Trp Ser Gln Cys Ser

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/044,564

DATE: 09/18/2002

TIME: 09:49:55

Input Set : A:\Cura540.txt

Output Set: N:\CRF4\09182002\J044564.raw

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129          245          250          255
131 Glu Cys Arg Leu Val Lys Glu Thr Arg Ile Cys Glu Val Arg Pro Cys
132          260          265          270
134 Gly Gln Pro Val Tyr Ser Ser Leu Lys Lys Gly Lys Lys Cys Ser Lys
135          275          280          285
137 Thr Lys Lys Ser Pro Glu Pro Val Arg Phe Thr Tyr Ala Gly Cys Leu
138          290          295          300
140 Ser Val Lys Lys Tyr Arg Pro Lys Tyr Cys Gly Ser Cys Val Asp Gly
141 305          310          315          320
143 Arg Cys Cys Thr Pro Gln Leu Thr Arg Thr Val Lys Met Arg Phe Arg
144          325          330          335
146 Cys Glu Asp Gly Glu Thr Phe Ser Lys Asn Val Met Met Ile Gln Ser
147          340          345          350
149 Cys Lys Cys Asn Tyr Asn Cys Pro His Ala Asn Glu Ala Ala Phe Pro
150          355          360          365
152 Phe Tyr Arg Leu Phe Asn Asp Ile His Lys Phe Arg Asp
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157 <211> LENGTH: 2114
158 <212> TYPE: DNA
159 <213> ORGANISM: Homo sapiens
161 <400> SEQUENCE: 3
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163 ggaaccacgg tgcctccctc cctgggcatct acacagaaca tggccttgca acggctcgac 120
164 cctgtttggt cctgtgggga ccgcccctgg agcctcctgt tctgtctctt cagcctcgga 180
165 tgggtgcata ccgagaggac cctggctgga gagacagggg ccgagctctg cccctgggg 240
166 ggagtcttga caacccccca taacatttcc agcctctccc ctggccaaat ccttggcttc 300
167 cctgtgtggg aggtgtccgg cctgagcaag gagcgtgtcc gggagctggc tgtggccttg 360
168 gcacagaaga atgtcaagct ctcaacagag cagctcgctt gtctggctca ccgctctctt 420
169 gagccccccg aggaacctga cgcctcccca ttggacctgc tgcattctct caacccagat 480
170 gctttctctg ggccccaggc ctggcaccgt ttcttctccc gcatacagaa ggccaatgtg 540
171 gacctgctcc cgaggggggg tcccgagcga cagcggctgc tgcctggggc tctggcctgc 600
172 tggggtgtgc gggggtctct gctgagcgag gctgatgtgc gggctctggg aggcctggct 660
173 tgcgacctgc ctgggctgct tgtggccgag tcggccgaag tgcctctacc ccgctctggg 720
174 agctgcccgg gacctctgga ccaggaccag caggaggcag ccaggggggc tctgcagggc 780
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176 ggctgtctgc cctgtctggg ccagcccatc atccgagca tcccgccagg catctctggc 900
177 gctgtggggc aacgctcttc tggggaacca tctggggggc agcctgaaag gacctctctc 960
178 cggcccgctt tccgggggga agtggagaag acagcctgtc ctccaggcaa gaaggcccg 1020
179 gagatagacg agagcctcat ctctacaaag aagtgggagc tggaaagctg cgtggatgag 1080
180 ggcctgctgg ccaccacgat ggaccgctg aaagccatcc ccttcacctc ccagcagctg 1140
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184 caggctctct gggggcccc cccacaggtg gcaacctga tgcacggctt tjtgaaggga 1380
185 aggggccagg tagacaaaga cacctagac acctgacctg cttctacccc tgggtacctg 1440
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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/044,564

DATE: 10/18/2002  
TIME: 19:49:55

Input Set : A:\Cura540.txt  
Output Set: N:\CRF4\09182002\J044564.raw

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188 cttgctttcc agaaccatgaa cgggtccgaa tacctcgtga agatccagtc cttcctgggt 1620
189 ggggccccca cggaggattt gaaggcgctc agtcagcaga atgtgagbat ggaattggcc 1680
190 acgttcctga agctgoggac ggatgogggt ctgbcgttga ctgtggctga ggtgcagaaa 1740
191 cttctgggac cccacgtgga gggcctgaag ggggaggagc ggcacccccc ggtgogggac 1800
192 tggatccctac ggcagcggca ggacgacctg gacacgctgg ggtgggggt acaggcggcc 1860
193 atccccaacg gctacctggc cctagacctc agcgtgcaag agacctctc ggggaacgcc 1920
194 tgcctccctag gacctggacc tgttctcacc gtcttgccac tgcctcctag ctcacacctg 1980
195 gcttgagggc cccactccct tgcctgcccc agccttgctg gggatccccc cctggccagg 2040
196 agcaggcacg ggtgatcccc gttccacccc aagagaacct ggcctcagta aacgggaaca 2100
197 tgcctctg agac 2114
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201 (211) LENGTH: 623
202 (212) TYPE: PRT
203 (213) ORGANISM: Homo sapiens
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210 20 25 30
212 Arg Thr Leu Ala Gly Glu Thr Gly Thr Glu Ser Ala Pro Leu Gly Gly
213 35 40 45
215 Val Leu Thr Thr Pro His Asn Ile Ser Ser Leu Ser Pro Arg Gln Leu
216 50 55 60
218 Leu Gly Phe Pro Cys Ala Glu Val Ser Gly Leu Ser Thr Glu Arg Val
219 65 70 75 80
221 Arg Glu Leu Ala Val Ala Leu Ala Gln Lys Asn Val Lys Leu Ser Thr
222 85 90 95
224 Glu Gln Leu Arg Cys Leu Ala His Arg Leu Ser Glu Pro Pro Glu Asp
225 100 105 110
227 Leu Asp Ala Leu Pro Leu Asp Leu Leu Leu Phe Leu Asn Pro Asp Ala
228 115 120 125
230 Phe Ser Gly Pro Gln Ala Cys Thr Arg Phe Phe Ser Arg Ile Thr Lys
231 130 135 140
233 Ala Asn Val Asp Leu Leu Pro Arg Gly Ala Pro Glu Arg Gln Arg Leu
234 145 150 155 160
236 Leu Pro Ala Ala Leu Ala Cys Trp Gly Val Arg Gly Ser Leu Leu Ser
237 165 170 175
239 Glu Ala Asp Val Arg Ala Leu Gly Gly Leu Ala Cys Asp Leu Pro Gly
240 180 185 190
242 Arg Phe Val Ala Glu Ser Ala Glu Val Leu Leu Pro Arg Leu Val Ser
243 195 200 205
245 Cys Pro Gly Pro Leu Asp Gln Asp Gln Gln Glu Ala Ala Arg Ala Ala
246 210 215 220
248 Leu Gln Gly Gly Gly Pro Pro Tyr Gly Pro Pro Ser Thr Trp Ser Val
249 225 230 235 240
251 Ser Thr Met Asp Ala Leu Arg Gly Leu Leu Pro Val Leu Gly Gln Pro
252 245 250 255
254 Ile Ile Arg Ser Ile Pro Gln Gly Ile Val Ala Ala Trp Arg Gln Arg

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## RAW SEQUENCE LISTING

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DATE: 09/18/2002

TIME: 09:49:55

Input Set : A:\Cura540.txt

Output Set: N:\CRF4\09182002\J044564.raw

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255          260          265          270
257 Ser Ser Arg Asp Pro Ser Trp Arg Gln Pro Glu Arg Thr Ile Leu Arg
258          275          280          285
260 Pro Arg Phe Arg Arg Glu Val Glu Lys Thr Ala Cys Pro Ser Gly Lys
261          290          295          300
263 Lys Ala Arg Glu Ile Asp Glu Ser Leu Ile Phe Tyr Lys Lys Trp Glu
264 305          310          315          320
266 Leu Glu Ala Cys Val Asp Ala Ala Leu Leu Ala Thr Gln Met Asp Arg
267          325          330          335
269 Val Asn Ala Ile Pro Phe Thr Tyr Glu Gln Leu Asp Val Leu Lys His
270          340          345          350
272 Lys Leu Asp Glu Leu Tyr Pro Gln Gly Tyr Pro Glu Ser Val Ile Gln
273          355          360          365
275 His Leu Gly Tyr Leu Phe Leu Lys Met Ser Pro Glu Asp Ile Arg Lys
276          370          375          380
278 Trp Asn Val Thr Ser Leu Glu Thr Leu Lys Ala Leu Leu Glu Val Asp
279 385          390          395          400
281 Lys Gly His Glu Met Ser Pro Gln Ala Pro Arg Arg Pro Leu Pro Gln
282          405          410          415
284 Val Ala Thr Leu Ile Asp Arg Phe Val Lys Gly Arg Gly Gln Leu Asp
285          420          425          430
287 Lys Asp Thr Leu Asp Thr Leu Thr Ala Phe Tyr Pro Gly Tyr Leu Cys
288          435          440          445
290 Ser Leu Ser Pro Glu Glu Leu Ser Ser Val Pro Pro Ser Ser Ile Trp
291          450          455          460
293 Ala Val Arg Pro Gln Asp Leu Asp Thr Cys Asp Pro Arg Gln Leu Asp
294 465          470          475          480
296 Val Leu Tyr Pro Lys Ala Arg Leu Ala Phe Gln Asn Met Asn Gly Ser
297          485          490          495
299 Glu Tyr Phe Val Lys Ile Gln Ser Phe Leu Gly Gly Ala Pro Thr Glu
300          500          505          510
302 Asp Leu Lys Ala Leu Ser Gln Gln Asn Val Ser Met Asp Leu Ala Thr
303          515          520          525
305 Phe Met Lys Leu Arg Thr Asp Ala Val Leu Pro Leu Thr Val Ala Glu
306          530          535          540
308 Val Gln Lys Leu Leu Gly Pro His Val Glu Gly Leu Lys Ala Glu Glu
309 545          550          555          560
311 Arg His Arg Pro Val Arg Asp Trp Ile Leu Arg Gln Arg Gln Asp Asp
312          565          570          575
314 Leu Asp Thr Leu Gly Leu Gly Leu Gln Gly Gly Ile Pro Asn Gly Tyr
315          580          585          590
317 Leu Val Leu Asp Leu Ser Val Gln Glu Thr Leu Ser Gly Thr Pro Cys
318          595          600          605
320 Leu Leu Gly Pro Gly Pro Val Leu Thr Val Leu Ala Leu Leu Leu Ala
321          610          615          620
323 Ser Thr Leu Ala
324 625
327 <210> SEQ ID NO: 5
328 <211> LENGTH: 852

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/044,564

DATE: 09/18/2002  
TIME: 09:49:56

Input Set : A:\Cura540.txt  
Output Set: N:\CRF4\09182002\J044564.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:12; Xaa Pos. 184  
Seq#:21; N Pcs. 1,3  
Seq#:80; Xaa Pos. 1  
Seq#:90; Xaa Pos. 8,235  
Seq#:99; Xaa Pos. 251  
Seq#:112; Xaa Pos. 160,161,162,163